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ABSTRACT

This document presents a directory of organizations participating in the national campaign to increase the representation of minorities in the engineering profession. Information provided for each group usually includes address, person to contact, organization objectives, organization activities, and data regarding organization membership. (SL)

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DIRECTORY OF ORGANIZATIONS IN ENGINEERING PROGRAMS FOR MINORITIES

Committee on Minorities in Engineering
Assembly of Engineering
National Research Council

NATIONAL ACADEMY OF SCIENCES
Washington, D. C. 1976

SE 023 054

NOTICE

The project that is the subject of this report was approved by the Governing Board of the National Research Council, whose members are drawn from the Councils of the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine. The members of the committee responsible for the report were chosen for their special competences and with regard for appropriate balance.

This report has been reviewed by a group other than the authors according to procedures approved by a Report Review Committee consisting of members of the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine.

Copies of this publication available from
Committee on Minorities in Engineering
Assembly of Engineering
National Research Council
2101 Constitution Avenue, N.W.
Washington, D. C. 20418

PREFACE

This is a directory of organizations participating in a national campaign to increase substantially the representation of Blacks, Mexican Americans (Chicanos), Puerto Ricans, and American Indians in the engineering profession. It is one in a series of publications prepared by the Committee on Minorities in Engineering of the National Research Council (NRC). Operating for the National Academy of Sciences and the National Academy of Engineering, the NRC consists of committees of experts who carry out studies of important national issues.

The committee was formed in April 1974 to serve as a catalyst for a community of educational, industrial, minority, and governmental interests seeking to foster a tenfold increase in the number of engineering graduates from the four particularly underprivileged and underrepresented minorities by the end of a decade. Since its establishment, the committee has worked most often on the decision-making level with interested organizations, institutions, and groups to coordinate programs and disseminate information.

Providing advice and support to the committee is the National Advisory Council on Minorities in Engineering, comprising the chief executive officers of some of the nation's leading corporate and academic institutions, engineering societies, and minority organizations. Among its members the Council includes U.S. government officials at cabinet and sub-cabinet levels.

The committee program is designed to encourage pluralism and recognize the varied methods and approaches used by organizations to attain increased minority participation in engineering.

Previous publications, Building Effective Minority Programs in Engineering Education and A Selected Annotated Bibliography on Employment of Minority Engineers, provided information about engineering education and manpower utilization efforts. A Workshop for Program Directors in Engineering Education of Minorities, held in Washington, D.C., June 12-14, 1975, furthered a continuing exchange of ideas and experiences among educators, counselors, researchers, engineers, and businessmen. Research projects are underway to study retention programs for minority students in engineering schools and the role of government in advancing the education and employment of minorities in engineering.

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INTRODUCTION

The purpose of this directory is to provide a useful listing of non-governmental organizations--national and regional cooperative activities, scholarship/student service organizations, professional engineering societies, minority organizations, and educational associations--that are working to increase the participation of minority students in engineering. This directory is intended to:

- identify organizations that allocate resources and personnel to advance minority participation in engineering;
- facilitate communication between organizations interested in joining forces to address the problems;
- describe how different organizations are responding to the opportunities for increasing minority interest in engineering; and
- provide a tool for organizing local coalitions interested in motivating and preparing minority students to pursue an engineering education.

The 74 entries herein range from organizations that direct all of their resources to increasing minority participation in engineering to those that have supported the effort through published statements or whose members have participated in one or more local or regional projects. Not included are descriptions of the many activities currently underway in engineering schools, public and private school systems, and research institutes which affect engineering students from minority groups.

Each entry provides the organization's address, principal officer and/or contact person, phone number, scope, objectives, activities, and, where appropriate, membership information. The committee believes that organizations of limited scope may offer strategies or programs of use to similar organizations and to those with national concerns as well. Entries of national scope are likely to have varied uses, containing information about organizations that provide services to their constituents on a national scale. Such national organizations may well be interested in participating in a joint effort with local, state, or regional groups.

The following is a breakdown by state or area of the organizations listed in this directory:

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Colorado	3
Georgia	3
Pennsylvania	2
Wisconsin	2
Minnesota	1
Oklahoma	1
Massachusetts	1
New Mexico	1

The appendix provides information about guidance materials available to teachers, counselors, and others, and recent publications which contain information for individuals or organizations concerned with reviewing in more detail the literature on minority participation in engineering.

MINORITY ENGINEERING/TECHNICAL SOCIETIES

BAY AREA ENGINEERING SOCIETIES' COMMITTEE FOR MANPOWER TRAINING, INC. (BAESCMT)
530 Howard Street
2nd Floor
San Francisco, California 94105

Executive Director: Howard Riedeaux
Telephone: (415) 543-3383

Scope: Regional

OBJECTIVES

The Bay Area Engineering Societies' Committee for Manpower Training, Inc. seeks to train, motivate, and assist minorities and women who desire to pursue engineering and architectural careers.

ACTIVITIES

The major BAESCMT program provides on-the-job training (OJT) for architectural/engineering drafters. A second program within the BAESCMT is a job upgrading program developed for OJT graduates to increase their proficiencies in specific drafting skills.

In recognition of the need to have minorities and women at all professional levels, BAESCMT has designed a Professional Education Program which encourages minorities to enter the fields of engineering and architecture.

In conjunction with the Professional Education Program, an on-going scholarship program has been developed to provide financial assistance to OJT graduates who are continuing their formal education at local universities and colleges.

MEMBERSHIP

American Society of Civil Engineers, San Francisco Section
Consulting Engineers Association of California
Structural Engineers Association of Northern California
California Society of Professional Engineers
American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc., Golden Gate Chapter
Northern California Chapter of the American Institute of Architects
East Bay Chapter of the American Institute of Architects
Northern California Council of Black Professional Engineers
BAESCMT Alumni Association
Organization of Women Architects

LOS ANGELES COUNCIL FOR BLACK PROFESSIONAL ENGINEERS (LACBPE)
P. O. Box 945
Los Angeles, California 90053

President: Vernon Montgomery
Telephone: (213) 418-0880

Scope: Regional

OBJECTIVES

The Los Angeles Council of Black Professional Engineers was formed in 1969 for the purpose of motivating elementary, secondary, and college students from minority communities to consider engineering as a profession.

ACTIVITIES

The LACBPE has implemented the following activities aimed at increasing the number of minorities choosing an engineering career:

- personal visits to elementary schools so that minority students can meet professional engineers who are also from minority groups;
- a pilot program in "Applied Science Awareness" at several South Central Los Angeles high schools;
- personal visits to high schools and junior colleges on Career Days;
- a pilot program, "Engineering Education for Minority Students," which recruits qualified students for local engineering schools; and
- a summer work exposure program which assists potential engineering students to find summer employment.

MEMBERSHIP

LACBPE members are professional engineers from the Los Angeles area.

MEXICAN AMERICAN ENGINEERING SOCIETY (MAES)
P. O. Box 41
Placentia, California 92670

President:	Manuel Castro
Telephone:	(213) 864-6011 Ext. 3544
Scope:	Regional

OBJECTIVES

The Mexican American Engineering Society is concerned with the recruitment, job placement, upward mobility, educational assistance, identification, and recognition of Mexican American (Chicano) engineers and scientists.

ACTIVITIES

MAES activities include:

- sponsoring engineering seminars at which Mexican Americans may present professional papers;
- identifying and recruiting students to consider post-secondary education in the sciences and engineering;
- working with California universities to recruit and retain engineering students;
- establishing a professional chapter in San Diego; and
- establishing a student chapter at California State, Long Beach.

MEMBERSHIP

MAES members are Mexican American (Chicano) engineers and non-engineers working either in the fields of engineering and science or in areas directly related to these fields.

NATIONAL ORGANIZATION OF BLACK CHEMISTS AND CHEMICAL ENGINEERS (NOBCCE)
614 Sligo Avenue, Suite 106
Silver Spring, Maryland 20910

Contact Person: William M. Jackson
Telephone: (202) 636-6883

Scope: National

OBJECTIVES

The National Organization of Black Chemists and Chemical Engineers was formed in 1973 to serve as a vehicle for enhancing the professional potential of Blacks in chemistry and chemical engineering.

ACTIVITIES

The NOBCCE's educational activities include:

- providing scholarships for undergraduate and graduate students;
- presenting scientific papers at the NOBCCE annual meetings; and
- providing a forum for Black chemists and chemical engineers.

MEMBERSHIP

NOBCCE membership includes Black chemists and chemical engineers.

NATIONAL SOCIETY OF AMERICAN INDIAN ENGINEERS (NSAIE)

College of Engineering
University of Oklahoma
202 West Boyd
Norman, Oklahoma 73019

Contact Person: George Thomas
Telephone: (405) 325-3192 or 325-2621

Scope: National

OBJECTIVES

The National Society of American Indian Engineers was organized to improve the educational opportunities available to American Indian students by informing and encouraging them to consider engineering as a profession.

ACTIVITIES

NSAIE activities include gaining recognition for the contributions to science and engineering made by American Indians; serving as advisors to American Indian engineering programs; encouraging the establishment of additional programs for American Indian students; encouraging student chapters of NSAIE; and establishing a speakers' bureau for colleges, universities, and high schools.

MEMBERSHIP

American Indians who have completed or are pursuing an engineering education.

NATIONAL SOCIETY OF BLACK ENGINEERS (NSBE)
3523 Corder Street
Houston, Texas 77021

National Chairman:	William Johnson
Contact Persons:	Barry Burrell, Secretary and Arnold Donald, Vice Chairman
Telephone:	(713) 747-6793 and (314) 363-0100 Ext. 4709
Scope:	National, local

OBJECTIVES

The National Society of Black Engineers, a student organization, seeks to develop and assist pre-college and college programs which increase minority participation in the field of engineering. It also encourages professional development among its members.

ACTIVITIES

NSBE plans the following activities:

- publication of newsletter;
- publication of resume booklets of its members on a local or regional basis;
- fund-raising events; and
- annual national conference.

The 1977 national conference of NSBE will be hosted by the Georgia Institute of Technology chapter in Atlanta, Georgia. Regional conferences are also planned.

MEMBERSHIP

NSBE presently includes 27 engineering schools organized into six regions. Each regional director of the NSBE is responsible for coordinating new and ongoing programs in his particular region. Membership in the society is open to minority engineering students and Black students specifically. The organization plans to expand its membership to include professional minority engineers.

NATIONAL TECHNICAL ASSOCIATION, INC. (NTA)
3310 Georgia Avenue, N.W.
Washington, D. C. 20010

Executive Director: Edward Taylor
Telephone: (202) 723-3595

Scope: National, local

OBJECTIVES

National Technical Association, Inc., a non-profit organization, disseminates information about opportunities available to scientifically oriented minority students and provides guidance and counseling services for minority youth. NTA's goal is to document the contributions of minority persons to the scientific process and to make minority groups aware of these contributions.

The National Auxiliary, which is comprised of NTA wives, provides support to NTA through complementary programs of research, recognition and education.

ACTIVITIES

NTA serves as an archive for recording the achievements of individuals from minority groups who are engaged in scientific and technical fields. It maintains a registry of scientifically and technically trained persons from minority groups. It is also a source of information on the availability of jobs for technically and scientifically trained persons. NTA is currently involved in several urban programs which provide educational awareness, youth guidance, and job referrals.

MEMBERSHIP

Formed in 1925 in Illinois, NTA has 18 chapters along the eastern seaboard and the Midwest. NTA membership includes architects, engineers, scientists, chemists, physicists, and mathematicians.

NORTHERN CALIFORNIA COUNCIL OF BLACK PROFESSIONAL ENGINEERS (NCCBPE)
P. O. Box 3471
Rincon Annex
San Francisco, California 94119

President: Warren Boyd
Telephone: (415) 834-3010

Scope: Regional

OBJECTIVES

The Northern California Council of Black Professional Engineers was organized to promote the graduation of more minority engineers and improve the social, economic, educational, and technical opportunities available to minority youth.

ACTIVITIES

Through conferences and other activities, the NCCBPE encourages minority students from elementary school through high school to consider engineering as a career. The NCCBPE also tutors engineering students. NCCBPE maintains a file of engineering job opportunities.

MEMBERSHIP

NCCBPE members are professional engineers from Northern California.

PROJECT SOUTHWEST
P.O. Box 175
Livermore, California 94550

Contact Person: Jose Luis M. Cortez
Telephone: Contact by mail

Scope: Regional

OBJECTIVES

Project Southwest is a non-profit corporation whose purpose is to assist and encourage minority students to enter the fields of science and engineering.

ACTIVITIES

Activities in which the organization is involved include:

- administration of a scholarship fund for students pursuing science or engineering studies;
- establishment of a program to assist elementary and high school faculty and administration to improve the effectiveness of their counseling activities with minority students. Activities include sponsoring career days, field trips, science clubs and lectures;
- assisting high school and college students majoring in science or engineering to find relevant summer employment; and
- identifying minority scientific or engineering professionals who can act as role models.

MEMBERSHIP

Project Southwest's membership consists primarily of professional engineers and scientists.

PUERTO RICAN ENGINEERS AND SCIENTISTS SOCIETY, INC. (PRESS)
c/o CHEMICO
One Penn Plaza
New York, New York 10001

President: Angel A. Rivera
Telephone: (212) 239-7738

Scope: National

OBJECTIVES

The objectives of the Puerto Rican Engineers and Scientists Society, Inc. are to:

- identify and represent Puerto Rican engineers and scientists;
- provide a forum for the interchange of ideas, information, and concerns of mutual interest among engineers and scientists of Puerto Rican decent;
- make recommendations to governmental and other agencies regarding the participation of Puerto Ricans in engineering and science;
- increase the number of Puerto Rican engineers and scientists; and
- support other agencies and organizations which are working to ensure the professional development of Puerto Rican engineers and scientists.

ACTIVITIES

PRESS has developed short and long range activities to accomplish its goals. They include:

- a pre-college program, directed at the identification, orientation, motivation, and preparation of potential Puerto Rican engineers and scientists;
- the Puerto Rican Engineering Opportunities, Recruitment, Identification, and Orientation (PREORIO) Program developed and implemented in the spring of 1976; and
- a financial aid program to provide scholarships for Puerto Rican students aspiring to become engineers and scientists.

MEMBERSHIP

PRESS members include engineers, scientists, and educators.

SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS (SHPE)
P. O. Box 48, Main Office
Los Angeles, California 90053

President: William Nuanes
Telephone: (213) 485-4555 or 485-3056

Scope: National

OBJECTIVES

The objectives of the Society of Hispanic Professional Engineers are to:

- improve the quality of education and training programs in order to prepare Hispanic students to become professional engineers;
- increase the number of Hispanics entering the field of engineering; and
- develop and implement programs to assist Hispanics considering engineering as a profession.

ACTIVITIES

SHPE activities include:

- a program to encourage Hispanic youth at the elementary, high school and college levels to consider engineering as a career. This is accomplished by arranging engineering awareness sessions such as science fairs and displays, by counseling and tutoring students, and by soliciting other engineering organizations to participate in these efforts;
- a scholarship program to aid students enrolled in engineering programs;
- a program to consult industry on methods of implementing affirmative action goals and programs;
- a program to monitor the success of Hispanic engineering students and professional engineers; and
- a program to develop a talent pool of Hispanic engineers for referral to employers.

SHPE publishes a newsletter for nationwide distribution and a directory of Hispanic professional engineers in California, New Mexico, and Texas.

MEMBERSHIP

SHPE membership includes engineers and engineering students. Student chapters have been formed at several universities.

COOPERATIVE EFFORTS: NATIONAL

A BETTER CHANCE, INC. (ABC)
334 Boylston Street
Boston, Massachusetts 02116

President: William M. Boyd, II
Telephone: (617) 536-5270

Scope: National

OBJECTIVES

A Better Chance is a non-profit scholarship program whose objective is to offer quality college preparatory education to talented and highly motivated young people who have been hampered by extreme poverty, an inadequate school system, family difficulties, or other problems which may be inherent in an impoverished urban or rural environment. The ultimate goal of ABC is to reinforce the student's determination to exercise leadership and to contribute to positive social change.

ACTIVITIES

ABC directs its recruitment effort at selected urban areas, including New York City and Boston. Volunteers in these cities assist ABC staff in recruiting, raising funds, and supporting students who are accepted into the program.

Selected students are placed in highly rated preparatory schools. Member schools include: 1) boarding schools such as Choate, Deerfield, Hotchkiss, Lawrenceville, Miss Porter's, Phillips Exeter, Western Reserve, and Woodberry Forest; 2) day schools such as Commonwealth, Germantown Academy, and Spence; and 3) public schools located in Amherst, Massachusetts; Hanover, New Hampshire; New Canaan, Connecticut; and Swarthmore, Pennsylvania.

ABC receives contributions from private foundations, corporations, and concerned individuals. More than 2,000 students, mostly Black, have completed secondary school under this program which provides financial assistance as well as supportive services. Support services available include: 1) transitional programs; 2) visits by student affairs personnel; 3) public school program evaluations; 4) community internship program; 5) workshops, conferences, seminars, and 6) consulting visits.

Approximately 8 percent of the 2,000 students who have graduated from the program have selected careers in science and engineering.

COMMITTEE ON MINORITIES IN ENGINEERING (CME)
Assembly of Engineering
National Research Council
2101 Constitution Avenue, N.W.
Washington, D. C. 20418

Executive Director: Melvin W. Thompson
Telephone: (202) 389-6417

Scope: National

OBJECTIVES

The Committee on Minorities in Engineering was established to coordinate efforts to increase minority participation in engineering by:

- defining needs, identifying resources, and recommending activities that seek to stimulate and develop program opportunities;
- developing generic models of successful approaches;
- advising and encouraging interactions among appropriate groups;
- serving as a resource center or forum for related activities; and
- communicating and disseminating data, information, and studies.

ACTIVITIES

The committee works on the decision-making level with interested organizations, institutions, and groups that set goals, initiate proposals, allocate resources, and influence efforts to increase minority representation in engineering. It organizes workshops, conferences, meetings, and task forces where the participants examine specific problems and help devise practical solutions to overcome the problems that minority students face. Four subcommittees concentrate on major elements necessary for achieving national minority engineering targets for enrollment and graduation:

- Subcommittee on Pre-Engineering Education, Guidance, and Motivation
- Subcommittee on Engineering Education
- Subcommittee on Manpower Utilization
- Subcommittee on Finance

CME has produced several publications relating to minority engineering efforts. They include: 1) Building Effective Minority Programs in Engineering Education; 2) A Selected, Annotated Bibliography on Employment of Minority Engineers; and 3) Proceedings of a Workshop for Program Directors in Engineering Education of Minorities. The Committee publishes a newsletter to disseminate information about engineering efforts for minorities.

MINORITY ENGINEERING EDUCATION EFFORT (ME^3)
345 East 47th Street
New York, New York 10017

Executive Director: Richard T. Mullins
Telephone: (212) 644-8040

Scope: National, regional

OBJECTIVES

The Minority Engineering Education Effort, was organized to:

- develop activities in the area of identification, motivation, and preparation of potential minority group engineering students;
- provide the minority community with a clearer understanding of engineering, its role and contribution to society;
- inform the community at large of the necessity for attracting larger numbers of minority members to engineering;
- serve as a catalyst to involve those key elements in society who have a role to play in the motivation and preparation of students who might be qualified to select a career in engineering; and
- guide the institutionalization of minority participation in the engineering profession through self-sustaining processes which will obviate the need for a special effort.

ACTIVITIES

ME^3 has undertaken activities in the pre-college area to help produce a tenfold increase in minority students in engineering by the mid 1980's. Since 1973, ME^3 has identified 58,000 potential minority students in engineering. Current projects include:

- computer search program to generate a list of eligible minority students who take the SAT, PSAT OR ACT college entrance examinations;
- distribution of student lists to participating engineering schools;
- referral service for students to three schools of their choice;
- distribution of student information packets on engineering;
- national speakers bureau; and
- distribution of motivational films.

REGIONAL COORDINATORS

ME^3 has three regional coordinators: Jacqueline C. Means, CIMPEAT, Atlanta, Georgia; Angel A. Rivera, CHEMICO, New York, New York; and James B. Morris, Inland Steel Company, Chicago, Illinois.

MINORITY INTRODUCTION TO ENGINEERING (MITE)
ENGINEERS' COUNCIL FOR PROFESSIONAL DEVELOPMENT (ECPD)
345 East 47th Street
New York, New York 10017

Executive Director:	David R. Reyes-Guerra
Telephone:	(212) 644-7685
Scope:	National, local

OBJECTIVES

Minority Introduction to Engineering, a two-week summer engineering program aimed at minority youth, preferably those who have completed their junior year in high school, exposes minority students to the field of engineering for the purpose of increasing freshman engineering school enrollments.

ACTIVITIES

The MITE program allows the participants to acquaint themselves with various fields of engineering, to experience a sample of college life, and to receive typical engineering classroom instruction. With the aid of counselors and admissions personnel, student participants determine what courses are needed to enter an engineering program. Approximately 80 percent of the 1974 MITE students who subsequently enrolled in college selected engineering as a field of study. ECPD, the sponsor of this guidance activity, secures funds from various American corporations and foundations to support MITE. In 1976 approximately 32 universities hosted 39 MITE programs.

NATIONAL ALLIANCE OF BUSINESSMEN (NAB)
1730 K Street, N.W.
Washington, D. C. 20006

President: William C. Murphy
Telephone: (202) 254-7180

Scope: National, local

OBJECTIVES

Established in 1968 at the request of President Johnson, the National Alliance of Businessmen is a partnership of business, labor, education, and government working to secure jobs, education, and training for the disadvantaged, needy youth, Vietnam veterans, and offenders.

ACTIVITIES

Based in Washington, D. C. with more than 100 branches in major employment centers throughout the United States, NAB is staffed by 5,000 persons, mainly business executives on loan from their companies for periods ranging from three months to two years.

NAB operates five programs to encourage students to remain in school and to prepare for desirable jobs and productive careers. They are:

- College Cluster program designed to improve the ability of minority college graduates to compete for private sector jobs and move up to higher positions of professional and executive responsibility. Three elements comprise a cluster: a minority college, an interested corporation or corporations, and a mainstream university. Through joint action, the members of the cluster identify major problems confronting the college, establish priorities for action, and help to broaden the educational opportunities available to students;
- Youth Summer Jobs program which provides disadvantaged students with work experience;
- Guided Opportunities for Life Decisions (GOLD) program which provides part-time employment for needy youngsters during the school year through cooperation of businessmen and educators;
- Youth Motivation Task Force program which provides disadvantaged youth in secondary schools and colleges with an opportunity to meet persons of the same background who have been successful in their careers; and
- Career Guidance Institutes which enable educators and employers to improve career guidance abilities by expanding their knowledge of private sector job conditions and requirements.

NATIONAL COORDINATING CENTER FOR CURRICULUM DEVELOPMENT
Program on Technology and Society
College of Engineering and Applied Science
State University of New York
Stony Brook, New York 11794

Contact Persons: John Truxal, Director
Emil J. Piel, Executive Director

Telephone: (516) 246-8424 or 246-8420

Scope: National, local

OBJECTIVES

The National Coordinating Center for Curriculum Development's main objectives are to promote a better understanding by minority students, teachers, and parents of the nature of modern engineering work, and to improve the required skills of college-bound students who desire to pursue quantitatively oriented higher education.

ACTIVITIES

Beginning with a summer-long workshop in 1976, the center is working with teachers, administrators, and others from approximately eight cities (New York, Philadelphia, Atlanta, Washington, Chicago, El Paso, Houston, and Boston) to develop curricula, support its implementation, and otherwise contribute to the development of local efforts in these cities as well as communicate with other national activities.

OFFICE OF OPPORTUNITIES IN SCIENCE (OOS)
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (AAAS)
1776 Massachusetts Avenue, N.W.
Washington, D. C. 20036

Director: Janet Brown
Telephone: (202) 467-4496

Scope: National

OBJECTIVES

The Office of Opportunities in Science of the American Association for the Advancement of Science was organized for the purpose of:

- increasing the number of minorities, women, and the handicapped in the natural, social, and applied sciences;
- increasing the kinds of opportunities available to these groups; ar
- increasing the participation of minority, women, and handicapped scientists and engineers in policy-making, advisory, and managerial positions.

ACTIVITIES

To fulfill the purposes and objectives defined by the AAAS Board of Directors, several programs and activities have been initiated or implemented by OOS including:

- Clearinghouse: Provides information concerning minorities, women, and the handicapped in science.
- Council for Equal Professional Opportunity: Maintains liaison with staff members of other science and engineering related professional associations.
- Science Education for Minorities: A Bibliography: Catalogs projects undertaken since 1960 which have aimed at improving the quality of science education for minority students.
- Conferences: Convene women, minority and/or handicapped scientists and engineers to discuss problems and recommend solutions for increasing opportunities for minorities.

COOPERATIVE EFFORTS: REGIONAL

CALIFORNIA CONSORTIUM FOR MINORITIES IN ENGINEERING (C_2ME)
California State University
Northridge, California 91324

Executive Director:	Raymond B. Landis
Telephone:	(213) 885-2191
Scope:	Regional

OBJECTIVES

The goal of the California Consortium for Minorities in Engineering is to help coordinate the efforts of industry, engineering colleges, high schools, and others addressing the guidance and academic needs of potential engineering students from minority communities.

ACTIVITIES

C_2ME concentrates its efforts in the Greater Los Angeles area where 13 engineering schools are located. C_2ME staff members and supporters have met with public school administrators, corporation representatives, and professional engineering groups to enlist their support for a coalition effort. The consortium is currently concentrating its activities at engineering schools where personnel is available on a full-time or part-time basis to expand efforts to reach minority high school students.

MEMBERSHIP

C_2ME's membership includes representatives from minority professional engineering societies, industrial corporations, engineering colleges, and other interested groups.

COMMITTEE ON INSTITUTIONAL COOPERATION + MIDWEST PROGRAM FOR MINORITIES IN ENGINEERING (CIC+MPME)

Stewart Center
Purdue University
West Lafayette, Indiana 47907

Executive Director: William Thomas
Telephone: (317) 749-2222

Scope: Regional

OBJECTIVES

The primary goal of the Committee on Institutional Cooperation + Midwest Program for Minorities in Engineering, an academic consortium of the Big Ten universities, the University of Illinois/Chicago Circle, the Illinois Institute of Technology, and the University of Notre Dame, is to increase substantially the number of capable and motivated minority high school students for recruitment by engineering colleges.

ACTIVITIES

To accomplish this goal CIC+MPME is:

- identifying secondary school minority students with engineering potential and encouraging them to pursue academic programs that will ensure that the engineering option remains open to them;
- establishing intensive communications between professional engineers, engineering educators, and potential engineering students;
- establishing effective relationships between professional engineers, engineering educators, and those persons who may influence students' career decisions and motivations, i.e., parents, teachers, and school guidance counselors;
- assisting in the development of pre-engineering curricula; and
- preparing potential engineering students to enter college.

MEMBERSHIP

Participants in the CIC+MPME are:

Illinois Institute of Technology
Indiana University-Purdue University at Indianapolis
Michigan State University
Northwestern University
Ohio State University
Purdue University
University of Illinois at Chicago Circle
University of Illinois at Urbana-Champaign
University of Iowa
University of Michigan
University of Minnesota
University of Notre Dame
University of Wisconsin at Madison
University of Wisconsin at Milwaukee

COMMITTEE TO INCREASE MINORITY PROFESSIONALS IN ENGINEERING, ARCHITECTURE AND TECHNOLOGY (CIMPEAT)
P. O. Box 1097
Atlanta, Georgia 30301

Executive Director: Jackie Means
Telephone: (404) 688-7500 or 688-6648

Scope: Regional

OBJECTIVES

The Committee to Increase Minority Professionals in Engineering, Architecture and Technology program was created to increase the number of minority professionals in engineering, architecture, and technology by offering supportive services to participating institutions and students enrolled in these institutions and by informing high school students, counselors and teachers of career opportunities in these professions.

ACTIVITIES

CIMPEAT's activities include:

- summer and part-time employment for college students enrolled in engineering, architecture, and technological programs;
- student financial assistance;
- direct program endorsement (e.g., dual degree programs);
- direct scholarship grants;
- technical equipment gifts;
- consultant services; and
- faculty loans.

CIMPEAT is presently serving as the southeastern regional representative for the Minority Engineering Effort (ME^3) Task Force.

MEMBERSHIP

One representative from each member organization forms the CIMPEAT which serves as a board of directors and holds meetings once a month. Member organizations include:

The Georgia Engineering Foundation
North Georgia Chapter of the American Institute of Architects Foundation
Metropolitan Atlanta Rapid Transit Authority (MARTA)
Parsons Brinckerhoff-Tudor-Bechtel (PB-T-B)
Accredited Engineering Schools, Dual Degree Programs
Career Guidance Department, Atlanta Public School System

ENGINEERING COLLEGES CONSORTIUM FOR MINORITIES, INC. (ECCM)
1527 University Avenue
Madison, Wisconsin 53713

President:	W. Robert Marshall
Telephone:	(608) 262-3481
Executive Director:	Louis A. Russell 6849 Old Dominion Drive McLean, Virginia 22101
Telephone:	(703) 686-3292
Scope:	National, local

OBJECTIVES

The Engineering Colleges Consortium for Minorities was organized to provide more equitable engineering opportunities for minority students on a national level by:

- stressing the relevance of engineering and science in the life of minority students;
- developing an understanding of the relation of chemistry, physics, and mathematics to engineering;
- affording its institutional members a mechanism to give the maximum personal attention to minority students; and
- developing in minority undergraduate students the ability to be a spokesman for his chosen engineering career and be a positive influence for technology.

ACTIVITIES

ECCM has sponsored pre-engineering summer programs for minority students on three of its member campuses: the University of Alabama, Huntsville; the University of Missouri, Columbia; and the University of Wisconsin, Madison. The purpose of the summer programs is to enhance the pre-requisite engineering skills of prospective minority engineering students so that they may compete successfully upon entering college. The academic program consists of mathematics, chemistry, and physics. An industrial lecture series orients students to the work-a-day world of engineering.

MEMBERSHIP

ECCM is made up of members from universities and industry.

INROADS, INC.
P. O. Box 831
Chicago, Illinois 60690

President: Frank C. Carr
Telephone: (312) 782-7341

Scope: Regional

OBJECTIVES

The INROADS program is a career-oriented program to motivate minority college students to pursue careers in accounting, engineering, and business management. The program began in Chicago and now has regional offices in St. Louis, Milwaukee, and Cleveland.

ACTIVITIES

In each city, INROADS acts as a catalyst to bring together local industries and four-year colleges and universities. Local industries underwrite office space and local INROADS staff, provide minority role-model personnel who work closely with the staff on projects with the students, and provide career-oriented jobs for the students in the summer. Local industries sponsor students who work successive summers for a corporation where they gain work experience in their major field of study. The student may then obtain full-time employment with the corporation upon college graduation. INROADS handles the initial screening of students and provides them with year-round counseling and training. The educational institutions provide tutorial, remedial, and other special programs designed to help the students remain in college.

INROADS also operates pre-engineering programs in two cities in cooperation with Upward Bound and local colleges of engineering to help prepare minority students to major in engineering. At both the college and high school levels, recruiting efforts are primarily directed toward ghetto youth.

Regional offices are as follows:

Reginald Dickson, Director
P. O. Box 8766
St. Louis, Missouri 63115
(314) 533-4720

Louis Randall, Director
P. O. Box 831
Chicago, Illinois 60690
(312) 782-7341

Lorenzo Tovar, Director
P. O. Box 1241
Milwaukee, Wisconsin 53201
(414) 272-1680

NATIONAL CONSORTIUM FOR GRADUATE DEGREES FOR MINORITIES IN ENGINEERING, INC.
University of Notre Dame
Notre Dame, Indiana 56556

Acting Executive Director: Stuart McComas
Telephone: (219) 283-3225

Scope: National

OBJECTIVES

The objective of the consortium is to produce an increase in the number of minority men and women with graduate degrees in the field of engineering. The consortium proposes to carry out a graduate education-summer employment program through which minority students will be provided with three summers of work experience with a participating research center and two years of graduate education with a participating engineering school. The minority groups from which the candidates will be selected are Black Americans, Mexican Americans (Chicanos), Puerto Ricans, and American Indians.

ACTIVITIES

Each year 100 minority students in the junior year of their undergraduate study will be selected for the program. The students will be employed by a participating research center for 12 weeks during each of the three summers they are in the program. During the school year the graduate school will assign an advisor to each student in order to provide guidance, support, and assistance. Research centers will provide advisors during the summer.

MEMBERSHIP

Initial membership in the consortium includes 19 engineering schools and 7 research centers.

PHILADELPHIA REGIONAL INTRODUCTION FOR MINORITIES IN ENGINEERING (PRIME)

The Franklin Institute Research Laboratories
20th and Race Streets
Philadelphia, Pennsylvania 19103

Executive Director: W. Barry McLaughlin
Telephone: (215) 567-0535

Scope: Regional

OBJECTIVES

The Philadelphia Regional Introduction for Minorities in Engineering's objectives are to provide engineering role models; identify potential engineering students; develop and disseminate engineering career information; coordinate Delaware Valley activities related to services for minority students interested in engineering; provide exposure for parents and community groups to opportunities in engineering-based careers; encourage development of industry-supported, pre-college programs to stimulate potential engineering students; and, coordinate efforts among universities, colleges, and schools of engineering with regard to minority engineering student activities.

ACTIVITIES

PRIME has been involved in several programs including:

- Implementation and coordination of programs at 14 junior high and middle schools and 7 high schools in the Philadelphia area.
- Engineering Technology Career Program, a six-week summer program for disadvantaged pre-college students at Temple University.
- Project Martha Washington at Drexel University, a mathematics applications program for students entering the 8th grade.
- Engineering Mathematics Program (EM-I-II), a program at Drexel University for outstanding minority students in Philadelphia high schools.
- Minority Introduction to Engineering Program (MITE) at Drexel.
- Project MAP (Motivation, Application, Preparation), a program to prepare minority high school students for entry into college.
- Pre-Freshman Programs at Drexel and the University of Pennsylvania and the post-freshman program at the University of Pennsylvania.
- Project S.E.E.D. (Special Elementary Education for the Disadvantaged), a mathematics enrichment program in Philadelphia.
- Star Honors Program at Widener College.

MEMBERSHIP

PRIME includes members from engineering schools, public schools, industry, government, minority organizations, and other groups in the Philadelphia area.

TEXAS ALLIANCE FOR MINORITIES IN ENGINEERING (TAME)
College of Engineering
Cockrell Hall
University of Texas at Austin
Austin, Texas 78712

Executive Director: John S. Robottom
Telephone: (512) 471-4584

Scope: Regional

OBJECTIVES

The Texas Alliance for Minorities in Engineering was created in 1975 for the purpose of increasing the number of minority graduates in engineering in the State of Texas by:

- acting as a clearinghouse for the dissemination of data, publications, techniques, speakers, seminars, and resources;
- providing a forum for all interested agencies and organizations which choose to affiliate;
- identifying and recruiting a state-wide network of local representatives in school districts, engineering schools, community colleges, industries, and minority organizations; and
- organizing networks into a systematic means of contacting students, math and science teachers, counselors, and others so that engineering as a career can be made known to minority students.

ACTIVITIES

TAME is organizing regional meetings in communities with significant minority populations. One-day meetings will feature presentations on engineering by engineering educators and others to an audience of local school district administrators and teachers, community leaders, and interested participants. Regional subcommittees will be formed at each meeting to expand the state network and create a local mechanism for disseminating information related to minority participation in engineering.

MEMBERSHIP

Membership includes representatives from minority organizations, engineering schools, public school districts, community colleges, and industry.

SCHOLARSHIP AND STUDENT SERVICE ORGANIZATIONS

LEAGUE OF UNITED LATIN AMERICAN CITIZENS NATIONAL EDUCATION SERVICE CENTERS
400 I Street, N.W., Suite 716
Washington, D. C. 20005

National Executive Director: Narciso Cano
Telephone: (202) 274-1652

Scope: National, local

OBJECTIVES

The National Educational Service Centers have the following objectives:

- to increase the number of educationally disadvantaged persons attending America's colleges and universities with special emphasis on Hispanic students;
- to increase the retention of these students in colleges and universities; and
- to increase the awareness of the educational problems of the Hispanic population among institutions of higher education, foundations, corporations, and federal agencies in order to bring an increased concentration of resources to the problem.

ACTIVITIES

The national office in Washington D. C. maintains a management information system to centralize the data and trends gathered by the local service centers. In addition, the national office informs the local service centers of new programs, funding, and other information which the local service centers make available to students. The local centers identify prospective Hispanic candidates for graduate and undergraduate programs.

REGIONAL OFFICES

Field Centers are located in the following cities:

Albuquerque, New Mexico
Boston, Massachusetts
Chicago, Illinois
Colorado Springs, Colorado
Houston, Texas
Phoenix, Arizona
Pomona, California
San Francisco, California
Seattle, Washington
Topeka, Kansas

NATIONAL ACHIEVEMENT SCHOLARSHIP PROGRAM FOR OUTSTANDING NEGRO STUDENTS
OF THE NATIONAL MERIT SCHOLARSHIP CORPORATION (NASP)
990 Grove Street
Evanston, Illinois 60201

Vice President: L. C. McMillan
Telephone: (312) 869-5100

Scope: National

OBJECTIVES

The National Achievement Scholarship Program for Outstanding Negro Students was established to increase educational opportunities for able Black students. The National Merit Scholarship Corporation administers the National Talent Search Program. NASP has three objectives:

- identify and honor the academic accomplishments of Black secondary school students;
- offer financial aid to outstanding Black finalists in the National Achievement Scholarship Program competition; and
- further the post-secondary education of a large number of Black students who participate in the achievement program by identifying them to colleges, universities, companies, foundations, and organizations that may assist them in obtaining a college education.

ACTIVITIES

To participate, a Black student must take the Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (PSAT/NMSQT) in high school and indicate on the test answer sheet a desire to be considered in the achievement program. Simultaneously, the student becomes a participant in the merit program.

Some 55,000 students from nearly 6,000 schools are participating in each annual achievement program scholarship competition. Each year, about 1,500 students are chosen semifinalists on the basis of their PSAT/NMSQT Selection Index Scores. Up to 1,200 become achievement program finalists and are eligible to compete for the over 500 scholarships available annually.

Achievement scholarships are financed by business corporations, foundations, colleges and universities, and others.

NATIONAL FUND FOR MINORITY ENGINEERING STUDENTS (NFMES)
220 East 42nd Street, Suite 3105
New York, New York 10017

President:	Garvey E. Clarke
Telephone:	(212) 867-1100
Scope:	National

OBJECTIVES

The National Fund for Minority Engineering Students is a private, non-profit organization established to raise and distribute educational funds for minority engineering students enrolled in colleges which have programs accredited by the Engineers' Council for Professional Development.*

ACTIVITIES

The Fund has developed a financial aid program which encourages engineering schools to accelerate their recruitment of Blacks, Mexican Americans (Chicanos), Puerto Ricans, and American Indians. During the 1976-77 academic year the fund plans to distribute scholarship assistance to freshman and transfer students who are nominated by engineering schools participating in the program. Schclarship funds are contributed by corporations and foundations.

MEMBERSHIP

A Board of Trustees comprised of industrial, education, and minority representatives guides the operation of the Fund.

*See separate entry.

NATIONAL SCHOLARSHIP SERVICE AND FUND FOR NEGRO STUDENTS (NSSFNS)
1776 Broadway
New York, New York 10019

Executive Director: David Kent
Telephone: (212) 757-8100

Scope: National

OBJECTIVES

The National Scholarship Service and Fund for Negro Students is a non-profit, college advisory and referral service for Black and other minority high school students. The service is also open to Upward Bound and Talent Search students without respect to race, color or creed.

The purposes of NSSFNS are to:

- increase the pool of trained Blacks and other minorities through the direct counseling of those students seeking to enter college;
- raise the level of expertise in counseling and guidance available to minority students; and
- raise funds for supplementary scholarship assistance for minority students receiving inadequate packages of financial aid.

ACTIVITIES

NSSFNS provides assistance to high school students seeking information on the admissions policies and financial assistance available from post-secondary schools. Students who complete a NSSFNS student application receive a student referral report which provides the student with personalized information about the educational institutions in which he is interested.

Two basic elements are used to produce a referral report: (1) the NSSFNS student application which the student submits while in high school; and (2) the NSSFNS data bank which contains up-to-date knowledge on about 3,000 post-secondary educational institutions. The personal information from the student's application is "matched" with college information in the data bank; the result is the student referral report which contains comments on four colleges plus as many as five alternative schools.

UNITED SCHOLARSHIP SERVICE, INC. (USS)
P. O. Box 18285
Capitol Hill Station
941 East 17th Avenue
Denver, Colorado 80218

Chairman:	Alan Parker
Contact Person:	Larry Parker, Program Director
Telephone	(303) 861-1052
Scope:	National

OBJECTIVES

The United Scholarship Service, Inc. is a national educational agency established to serve Native American young people. Its goals are to:

- improve the quality of educational opportunities available to Native American students;
- provide educational and financial aid counseling and financial assistance; and
- support students, parents, and community groups in seeking a voice in the education of their young people.

ACTIVITIES

USS programs serve Native American students primarily in the area of financial aid at the undergraduate level. USS staff serves as an advocate for Native American students by securing financial aid from colleges and other resources; by sustaining a student through his educational program after he/she is in school; and by working with schools and other institutions to insure proper attention to individual and group needs.

In addition to direct assistance, the USS supports a limited number of intern positions at the undergraduate level. Indian young people serve in these positions as both peer group counselors in the area of financial aid and as advocates for the students on the campuses where they are in residence. USS has held training sessions on financial aid assistance for both parent groups and Indian community colleges in order to make the Native American community aware of financial aid opportunities. USS uses its publications as a vehicle of discourse with the Native American community and others involved in the general area of higher education.

ENGINEERING SOCIETIES

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS (AIAA)
1290 Avenue of the Americas
New York, New York 10019

Executive Director: James J. Harford
Telephone: (212) 581-4300

Scope: National

OBJECTIVES

The American Institute of Aeronautics and Astronautics is a technical society of scientists and engineers in the fields of missile and space technology, rocket systems, aeronautics, and marine systems.

ACTIVITIES

AIAA is developing programs to interest and motivate students to consider engineering as a career. Each spring AIAA holds seven regional student conferences. At these conferences, students meet AIAA members from other schools and present technical papers in competition for awards.

AIAA holds special programs to encourage minority students to enter aerospace engineering.

AIAA's publications include Astronautics & Aeronautics, a series of AIAA journals, and the AIAA Student Journal.

MEMBERSHIP

AIAA has a membership of 25,000 in 68 local chapters and 115 student branches throughout the country.

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS (AIChE)
345 East 47th Street
New York, New York 10017

Executive Secretary:	F. J. Van Antwerpen
Telephone:	(212) 644-8015
Chairman, National Subcommittee on Career Guidance for the Disadvantaged:	Robert C. Ahlert
Telephone:	(201) 395-7674
Scope:	National

OBJECTIVES

The purposes of the American Institute of Chemical Engineers are to advance the theory and practice of chemical engineering and to maintain a high professional standard among its members.

ACTIVITIES

The AIChE National Subcommittee on Career Guidance for the Disadvantaged assists local programs in furnishing information about career opportunities in engineering (chemical engineering where appropriate) to disadvantaged high school and junior high school students.

The subcommittee also develops contacts for student aid, helps to define the needs and assists in the development of resources for the predominantly Black engineering schools, and provides liaison between the AIChE and other agencies and individuals concerned with increasing the number of minority students in engineering.

One recent effort has been to identify and set up lines of communication with all minority chemical engineers. Many have agreed to act as role models for high school and junior high school students in an effort to increase the number of minority students in engineering. This project is being coordinated with the Minority Engineering Education Effort.*

*See separate entry.

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)
345 East 47th Street
New York, New York 10017

Executive Director:	Eugene Zwoyer
Contact Person:	Carl E. Nelson, Manager, Field Services
Telephone:	(212) 644-7672
Scope:	National, regional, local

OBJECTIVES

The American Society of Civil Engineers is a professional society of civil engineers with chapters in each state and the major metropolitan areas of the United States.

ACTIVITIES

ASCE has had a Committee on Minority Programs (COMP) since 1971 to "promote local section and national activities that will encourage the education and training of disadvantaged minorities in engineering and related disciplines, foster the employment of such minorities at all levels of skill and training within the engineering fields, and direct the expertise of engineers to the solution of the special and economic problems faced by minorities." COMP programs operate in 30 cities or states and cover the following activities in varying degrees: on-the-job training, employee upgrading, counseling, summer and part-time jobs for college students, tutoring and some financial assistance, scholarship programs, and development of an affirmative action plan for employers. Officers of the sections are encouraged to conduct "career counseling" programs in junior and senior high schools in order to motivate youngsters to choose an engineering career.

ASCE publications include the monthly Civil Engineering and ASCE NEWS.

MEMBERSHIP

ASCE has approximately 70,000 members in 17 geographic districts, 82 sections and 114 branches, and approximately 200 student groups.

AMERICAN SOCIETY FOR ENGINEERING EDUCATION (ASEE)
Suite 400
One DuPont Circle, N.W.
Washington, D. C. 20036

Executive Director:	Donald E. Marlowe
Contact Person:	Francis X. Bradley, Jr., Director Projects and Federal Relations
Telephone:	(202) 293-7080
Scope:	National, regional, local

OBJECTIVES

The American Society for Engineering Education represents engineering educators. Its primary objective is to advance education in all of the areas related to engineering and the allied branches of science and technology, including teaching and learning, research, extension services, and public relations.

ACTIVITIES

ASEE involvement in minority affairs is the responsibility of a standing committee reporting directly to the president. ASEE's minority programs include the following:

- Black Engineering Colleges Development Committee. The Committee was established to arrange an exchange of faculty among educational institutions in order to upgrade the faculty and programs of predominantly Black engineering colleges. It has also been active in developing programs in student recruitment, pre-college programs, effective teaching, faculty development, minority student retention and public information.
- American Indians in Engineering. This is a demonstration project which has been established to increase the number of American Indians entering the engineering profession. ASEE has appointed a committee for this project made up of leaders from the American Indian community and from engineering schools.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
345 East 47th Street
New York, New York 10017

Executive Secretary:	Rogers Finch
Contact Person:	J. A. David, Director, Member Services
Telephone:	(212) 644-7745
Scope:	National, regional, local

OBJECTIVES

The objectives of the American Society of Mechanical Engineers is to promote the art and science of mechanical engineering by encouraging original research, fostering engineering education, promoting the exchange of ideas by engineers among themselves and with allied scientists, broadening the usefulness of the engineering professional in cooperation with other engineering and technical societies, and promoting a high level of ethical practice.

One goal is to encourage and assist the entry into the engineering profession of all capable individuals who because of race, sex, creed, or economic handicap might otherwise find it difficult.

ACTIVITIES

ASME is currently involved in a project to develop a guidance program about engineering to reach young minorities and women. Through this project ASME has identified a need for basic guidance materials to communicate with young minority students and women about careers in engineering.

ENGINEERING MANPOWER COMMISSION (EMC)
OF ENGINEERS JOINT COUNCIL (EJC)
345 East 47th Street
New York, New York 10017

Executive Secretary: John Alden
Telephone: (212) 644-7839

Scope: National

OBJECTIVES

The Engineering Manpower Commission, organized in 1951 as part of Engineers Joint Council, serves as a focus for national technological manpower problems. Its objectives are to:

- engage in studies and analyses of the supply, demand, and utilization of engineering and technical manpower;
- make recommendations, conduct programs, and develop reports concerning these aspects of engineering and technical manpower; and
- carry out such other programs in the field of manpower as may be authorized by the Board of Directors of EJC.

ACTIVITIES

EMC produces numerous publications on engineering manpower including annual reports on engineering and engineering technology enrollments and graduations. Enrollment and graduation reports since 1973 have contained information on women, Blacks, Spanish surnamed, Orientals, American Indians, and foreign nationals. Contributors to enrollment and graduation reports are the deans, registrars, and other officials of engineering schools and universities.

ENGINEERS' COUNCIL FOR PROFESSIONAL DEVELOPMENT (ECPD)
345 East 47th Steeet
New York, New York 10017

Executive Director: David R. Reyes-Guerra
Telephone: (212) 644-7684

Scope: National

OBJECTIVES

The Engineers' Council for Professional Development, composed of 15 national engineering societies representing over 700,000 engineers, serves as the accreditation body in engineering and engineering technology. The objectives of this organization include the promotion and advancement of engineering education with a view to furthering the public welfare through the development of a better educated and qualified engineer, engineering technologist, engineering technician, and others engaged in engineering or engineering related work.

ACTIVITIES

To achieve these purposes, ECPD carries out the following activities:

- implements a comprehensive program of accreditation and assists academic institutions in planning their educational programs;
- carries out a guidance program for pre-college students and promotes the intellectual development of those interested in engineering and engineering related professions;
- acts as a federation of engineering societies and engineering related societies to assist in and advance the professional development of engineers and others engaged in engineering;
- sponsors Minority Introduction to Engineering* (MITE) summer programs;
- provides facilities and support for the national headquarters of the Junior Engineering Technical Society;*
- supports the guidance committee which develops and provides publications, films, audiovisual and other guidance materials;
- maintains a small film-lending library which includes Engineering Makes a World of Difference; Engineering, The Challenge of the Future; and two minority interest films--A Piece of the Action and Nothing But Common Sense.

*See separate entry.

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. (IEEE)
345 East 47th Street
New York, New York 10017

General Manager:	H. A. Schulke, Jr.
Director-Educational Services:	John M. Kinn
Telephone:	(212) 644-7970
Scope:	National, regional, local

OBJECTIVES

The purpose of the Institute of Electrical and Electronics Engineers, Inc. is to advance the theory and practice of electrical engineering, electronics, radio, and the allied branches of engineering and related arts and sciences.

ACTIVITIES

The IEEE Education Activities Board directs a minorities in engineering effort. In addition to the IEEE "electrically and electronically" oriented pre-college guidance effort, liaison and support are given to the pre-college guidance effort of the national Engineers' Council for Professional Development* with special guidance materials available from IEEE and ECPD.

The IEEE has published a major summary of information related to increasing minorities in engineering: IEEE Transactions on Education, February 1974. Special efforts are underway to collect more detailed information about the minority members of IEEE. Plans are being developed to encourage the IEEE sections to work locally to increase the number of minorities preparing for and enrolling in engineering education.

*See separate entry.

INSTITUTE OF TRANSPORTATION ENGINEERS, INC. (ITE)

P. O. Box 9234
1815 N. Fort Myer Drive
Suite 905
Arlington, Virginia 22209

Equal Opportunities Coordinating Center
820 Davis Street
Evanston, Illinois 60201

Telephone: (703) 527-5277
Equal Opportunities Coordinator: Carol Powills
Telephone: (312) 491-1000

Scope: National, local

OBJECTIVES

The purpose of the Institute of Transportation Engineers, Inc.'s Equal Opportunities Coordinating Center is to establish a program to encourage the entry of minorities into the transportation engineering profession. ITE has established a goal that by the middle 1980's approximately 60 new transportation engineers a year will come from minority groups.

ACTIVITIES

ITE is carrying out its equal opportunities program through local sections. The program has three elements:

- Recruitment at the high school level: In cities around the country groups of students whose school records indicate that they could do well in engineering will learn how traffic problems are studied and solved by using actual traffic engineering methods in the field under the guidance of professional traffic engineers. In the first year, 3 to 7 cities will be involved, with 15 to 20 cities included each year thereafter.
- Recruitment at the engineering school level: Students in the traditionally Black engineering schools and in the large universities where minority enrollments are growing rapidly will be introduced to transportation engineering, both through special information programs and through new courses held at the colleges.
- Publication of materials: a) Career guidance materials aimed at minority students will be published and distributed; and b) A set of flyers about the high school and engineering school programs will be produced so that other groups of engineers, urban planners, or public administrators can learn from ITE's experiences.

JUNIOR ENGINEERING TECHNICAL SOCIETY (JETS)
United Engineering Center
345 East 47th Street
New York, New York 10017

President:	M. F. X. Gigliotti
Executive Manager:	Roy B. Cowin
Telephone:	(212) 644-7690
Scope:	National, local

OBJECTIVES

The purposes of the Junior Engineering Technical Society are to:

- promote interest in the vocational fields of engineering and science among young people at the pre-college level through sponsored clubs;
- assist in establishing such clubs; and
- provide such clubs with operating materials and an appropriate planned program on an annual basis.

ACTIVITIES

JETS operations are conducted by a national office, by more than 50 state or regional coordinators, and through approximately 1,500 high school clubs--many supported by local chapters of professional engineering societies. JETS chapters total nearly 2,000. Activities are guided by a self-perpetuating independent board of directors composed of prominent individuals from industry, universities, engineering societies, and private engineering practice. Recently, the JETS national office started working with the Boy Scouts of America to establish JETS-Explorer Posts, a new vehicle for first-hand learning about engineering careers.

During the school year a monthly newsletter, the Junior Engineering Times Special, outlines a monthly program investigating various engineering disciplines through discussions, field trips, and laboratory experiments. JETS also publishes other literature on its program and conducts the yearly National Engineering Aptitude Search (NEAS), a program based on a special test designed to identify possible success in a college of engineering. NEAS yearly participants average over 20,000 students in grades 9 through 12.

Minority engineering activities include special efforts to organize JETS chapters in inter-city schools. Selected cities include St. Louis, Chicago, and Detroit. The establishment of a city-wide engineering research center for high school students is in the planning stage for New York City.

NATIONAL EXECUTIVE COMMITTEE ON GUIDANCE (NECG)
1025 N. Milwaukee Street
Milwaukee, Wisconsin 53201

Chairman: Richard J. Ungrodt, Vice President Academic Affairs, Milwaukee School of Engineering

Telephone: (414) 272-8720

Scope: National, state

OBJECTIVES

In 1971 the engineering profession initiated a coordinated guidance program to provide active programs of guidance and information to all educational levels from grammar school through community college. The effort delegated major roles to three professional societies which broadly represent the engineering profession - the National Society of Professional Engineers,* the American Society for Engineering Education,* and the Engineers' Council for Professional Development.*

ACTIVITIES

The National Society of Professional Engineers (NSPE) is responsible for organizing and continuing a guidance program at the state level and providing active programs (conferences, speakers, events, etc.) on a local basis. The American Society for Engineering Education is responsible for marshalling the support of the engineering educational community and for working with NSPE in the training of guidance personnel. The Engineers' Council for Professional Development (of which most technical engineering societies are members) is responsible for developing publications, audiovisual materials, and programs. As the policy group, NECG is responsible for the coordination of the guidance effort.

The individual engineering societies continue to prepare publications and to implement their own guidance programs. However, their activity is coordinated with the NECG. The program has a state-by-state organization and provides information, speakers, and counselors.

MEMBERSHIP

The National Executive Committee on Guidance effort represents over 360 educational institutions and 14 national engineering societies with over 700,000 individual members and 900 chapters.

*See separate entry.

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS (NSPE)
2029 K Street, N.W.
Washington, D. C. 20006

Executive Director: Paul H. Robbins, P.E.
Telephone: (202) 331-7020

Scope: National

OBJECTIVES

The primary objectives of the National Society of Professional Engineers are to promote social, professional, ethical, and economic considerations of engineering as a profession.

ACTIVITIES

A Task Force on Minority Engineering Preparation and Employment has reviewed the problems of: introducing minority persons to the engineering profession; guiding those with potential for qualifying into the engineering educational system; and employing minorities in engineering jobs. NSPE cooperates with established groups and organizations whose activities are directed toward minorities.

The 500 local chapters of NSPE have diversified programs with varying degrees of emphasis on meeting the needs of minorities. The formation of local Junior Engineering Technical Societies (JETS) chapters and Boy Scout Explorer Posts is encouraged.

The NSPE Educational Foundation, in cooperation with universities and industry, offers a limited number of four-year scholarships to high school seniors who are beginning their engineering studies. Minorities are actively encouraged to apply for all scholarships; some are specifically limited to minority students.

Community action programs of NSPE encourage the local societies of professional engineers to sponsor community projects which would benefit from engineering expertise and knowledge, usually in cooperation with other segments of the profession and the community. These frequently involve assistance to the underprivileged and minority groups of the community.

The Society distributes two monthly publications: The Professional Engineer magazine and a newsletter.

MINORITY ORGANIZATIONS: BLACK

NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE (NAACP)
1970 Broadway
New York, New York 10019

Executive Director:	Roy Wilkins
Telephone:	(212) 245-2100
Scope:	National, state, local

OBJECTIVES

The National Association for the Advancement of Colored People (NAACP) seeks to end racial segregation and other forms of discrimination in all public aspects of American life. This objective includes:

- equal justice under law;
- personal security against mob violence and police brutality; and
- desegregation in public education, transportation, housing, health and recreational facilities, libraries and museums, and places of public accommodation.

ACTIVITIES

The NAACP pursues its goals by:

- using the courts to secure justice;
- working for enactment of laws to protect civil rights and ban racial discrimination;
- carrying on an educational program to create a climate of opinion in favor of equal rights and human brotherhood; and
- engaging in selective buying campaigns, picketing, and direct action programs.

The NAACP has an organizational structure which includes such departments as Education, Pupil Incentive, Training, Youth Division, and Youth and College. Activities conducted through these departments reach students, educators, parents, and others. The NAACP holds an annual meeting as well as state and local meetings. It publishes a monthly magazine, Crisis.

MEMBERSHIP

The NAACP has approximately 450,000 members in 50 states and the District of Columbia. It has 1,800 branches, youth councils, and college chapters. Regional offices are located in Atlanta, Dallas, Kansas City, Missouri, and San Francisco; area offices are located in Philadelphia and Chicago.

NATIONAL URBAN LEAGUE, INC.
500 East 62nd Street
New York, New York 10021

Executive Director:	Vernon E. Jordan, Jr.
Contact Person:	M. T. Puryear, Director Economic Development
Telephone:	(212) 644-6500
Scope:	National, local

OBJECTIVES

The National Urban League is an interracial, non-partisan, community service organization founded in 1910 to eliminate racial discrimination and segregation in the United States and to increase the economic and political authority of Blacks and other minorities in order to secure equal opportunities in all sectors of the American society.

ACTIVITIES

The national educational activities of the Urban League include:

- conducting career development conferences at the high school and college level;
- working with federal, state and local educational departments on curriculum issues;
- serving as a task force member of the Minority Engineering Education Effort (ME^3);*
- conducting special programs aimed at career development (summer fellowships and Black executive exchange programs); and
- operating a National Skills Bank which includes equal opportunity seminars, affirmative action seminars, and other information and training for business and industrial employees.

In addition to the above activities, local leagues conduct programs which identify, motivate, and supply information about courses, curricula, and financial aid available in order to reach a goal of 4,000 to 6,000 minority engineering graduates by the mid-1980's. The programs reach young groups from elementary schools through college.

MEMBERSHIP

The National Urban League has 102 local leagues in cities throughout the United States. Regional offices are located in Chicago, Illinios; Atlanta, Georgia; Los Angeles, California; and New York, New York.

*See separate entry.

OPERATION PUSH (PEOPLE UNITED TO SAVE HUMANITY)
930 East 50th Street
Chicago, Illinois 60615

National President:	Jesse Jackson
Telephone:	(312) 373-3366
Contact Person:	Frank Watkins National Director of Communications
Scope:	National, local

OBJECTIVES

Operation PUSH promotes social justice for all people including the right of every person to:

- quality education;
- useful work and adequate wages; and
- medical services and decent housing.

ACTIVITIES

The Operation PUSH effort in education organizes parents, teachers, school administrators, ministers, and other elements of the community to support and encourage students to achieve academic excellence and disciplined behavior. The education division also organizes representatives delegated by students into "Peace Brothers" to help set standards of disciplined conduct; promotes the "7 to 9 study hour" in the evening for students to do their assigned homework; and cooperates with the mass media in spreading the idea of academic excellence in the schools.

Other PUSH divisions focus on employment, housing, and small business.

MEMBERSHIP

In addition to headquarters in Chicago, there are satellite offices in 30 other cities throughout the country. Membership in PUSH is open to individuals who share PUSH objectives.

OPPORTUNITIES INDUSTRIALIZATION CENTERS OF AMERICA, INC. (OIC)
100 West Coulter Street
Philadelphia, Pennsylvania 19144

Founder and Chairman of the Board:	Leon H. Sullivan
Executive Director:	Elton Jolly
Telephone:	(215) 849-3010
Scope:	National, regional, local

OBJECTIVES

Opportunities Industrialization Centers of America (OIC), a manpower delivery system based on the philosophy of self-help, was created to increase the skills and job opportunities available to minority youth.

ACTIVITIES

Based in Philadelphia, OIC has nine regional offices throughout the country. The national office provides technical assistance to local OIC's in the following areas: financial management, fund raising, board training, and program areas such as recruitment, assessment, counseling, feeder and skills training, job development, job placement, and follow-up.

REGIONAL OFFICES

OIC is served in over 100 cities by the following regional offices:

Boston, Massachusetts
Philadelphia, Pennsylvania
Chicago, Illinois
Kansas City, Kansas
Seattle, Washington
Atlanta, Georgia
Dallas, Texas
San Francisco, California

SOUTHERN CHRISTIAN LEADERSHIP CONFERENCE (SCLC)
334 Auburn Avenue, N. E.
Atlanta, Georgia 30303

President:	Ralph D. Abernathy
Telephone:	(404) 522-1420
Scope:	National

OBJECTIVES

The objectives of the Southern Christian Leadership Conference are to:

- organize and maintain Christian guidance as a means to improve the civic, religious, economic, and cultural conditions in the nation;
- strive toward a greater understanding of interracial development and good will;
- work with national, state, and local agencies in the development of Christian fellowship, interracial unity, and understanding;
- secure through research and action equal opportunity programs for all people;
- assist in obtaining jobs for the underprivileged; and
- encourage voter registration and other civic participation which promotes the general welfare.

ACTIVITIES

SCLC achieves its objectives through nonviolent direct action, lectures, dissemination of literature, and other means of public instruction.

MINORITY ORGANIZATIONS: MEXICAN AMERICAN (CHICANO)

AMERICAN GI FORUM OF THE UNITED STATES
1008 Macon Street
Fort Worth, Texas 76102

National Chairman: Antonio Morales
Telephone: (817) 335-1930 or 926-2605

Scope: National, state, local

OBJECTIVES

The American GI Forum was organized to provide a voice for Mexican Americans seeking veteran's rights. Subsequently, the Forum broadened its objectives to include a program for improving the social, educational, economic, and political conditions of the Mexican American community.

ACTIVITIES

The Forum's activities include projects which:

- develop leadership among Mexican Americans participating in community affairs;
- award scholarships to deserving students;
- advance understanding between citizens of various national origins and religious beliefs; and
- improve educational opportunities.

MEMBERSHIP

The Forum has approximately 500 chapters in 30 states.

INCORPORATED MEXICAN AMERICAN GOVERNMENT EMPLOYEES (IMAGE)
P. O. Box 368
Arlington, Virginia 22210

National President: Gil Chavez
Telephone: (202) 245-8467

Scope: National and local

OBJECTIVES

The Incorporated Mexican American Government Employees (IMAGE) is a national organization concerned with employment for Hispanic Americans at the federal, state, county, and municipal level. IMAGE objectives include expanding employment opportunities for Hispanic aspirants to government service; determining the educational and professional needs of Hispanics for the purpose of enhancing their entrance and advancement in government service; assisting government services in providing the proper circumstances for recruitment, training, employment, and advancement of Hispanics in government service; and establishing a communications network with Hispanic individuals in government service.

ACTIVITIES

IMAGE activities include providing leadership and impetus to expand and improve the "Sixteen-Point Program," a directive aimed at providing equal employment opportunities in federal government for Hispanics; maintaining a skill bank of Hispanic persons; communicating with key organizations, agencies, and private industry; and holding an annual convention to address issues significant to the Hispanic American community.

MEMBERSHIP

IMAGE has 8,000 members in approximately 40 chapters located in communities with concentrations of Hispanic Americans.

INVOLVEMENT OF MEXICAN AMERICANS IN GAINFUL ENDEAVORS, INC. (IMAGE)
201 N. St. Mary's
Suite 705
San Antonio, Texas 78205

National Executive Director: Joe O. Garza
Telephone: (512) 225-3068

Scope: Regional

OBJECTIVES

The Involvement of Mexican Americans in Gainful Endeavors, Inc., provides services to youth in the areas of employment, education, recreation, diagnostic counseling, tutoring, job referrals, job development, and career services information.

ACTIVITIES

IMAGE activities include a Youth Entrepreneurship Program and Career Day conferences with local high schools designed to help students identify the gaps in their technical and academic training.

MEMBERSHIP

IMAGE chapters are located in the following Texas communities: Alice, Harlingen, Mission, Corpus Christi, Laredo, Kingsville, Brownsville, Crystal City, Pecos, and San Antonio.

LEAGUE OF UNITED LATIN AMERICAN CITIZENS (LULAC)
1712 North 15th Street
Waco, Texas 76707

National President: Manuel Gonzalez
Telephone: (817) 754-2185

Scope: National, state, local

OBJECTIVES

The League of United Latin American Citizens was established to:

- strive for political and religious freedom and equal social and economic opportunity for Mexican Americans;
- equip Mexican Americans with the tools necessary to enjoy fully their rights and obligations as American citizens; and
- establish cooperative relationships with other civic organizations and agencies in the fields of public service.

ACTIVITIES

LULAC activities include social and economic development projects in the areas of manpower training, scholarships, housing projects, medical services for the aged and handicapped, civic activities, legal defense, special training, and medical services for migrants.

MEMBERSHIP

LULAC has approximately 275,000 members in 33 states and 3,271 local councils.

SER JOBS FOR PROGRESS, INC.
SERVICE, EMPLOYMENT AND REDEVELOPMENT (SER)
National Office
9841 Airport Boulevard, Suite 1020
Los Angeles, California 90045

National Director: Richard Zazueta
Telephone: (213) 649-1511

Scope: National, regional, local

OBJECTIVES

SER Jobs for Progress was formed to address the problem of high unemployment among Mexican Americans by providing manpower and educational services.

ACTIVITIES

SER assists the disadvantaged through manpower and related programs designed to upgrade educational skills, to provide vocational training, and to assist persons in finding jobs.

SER Jobs for Progress also has a Professional Search System which compiles the names and qualifications of Hispanic professionals.

SER's educational activities include providing job and vocational training, teaching English as a second language, and creating adult basic and advanced education programs.

SER publishes a monthly newsletter and an annual report.

MEMBERSHIP

SER has 60 local SER programs in 60 U.S. cities with 72 offices in 17 states and the District of Columbia.

MINORITY ORGANIZATIONS: AMERICAN INDIAN

NATIONAL CONGRESS OF AMERICAN INDIANS (NCAI)
1430 K Street, N. W.
Washington, D. C. 20005

Executive Director:	Charles Trimble
Telephone:	(202) 347-9520
Scope:	National, regional

OBJECTIVES

The National Congress of American Indians was created to:

- provide American Indian tribes with a unified voice at the national level;
- increase public understanding of the American Indian;
- preserve civil rights under American Indian treaties or agreements with the United States; and
- promote the common welfare of the American Indian.

ACTIVITIES

During the last 10 years, NCAI has expanded its role to provide services to Indians such as technical assistance and information dissemination. These services are supported primarily by membership dues, government contracts, and tax-exempt donations. NCAI publishes a newspaper, the NCAI Bulletin.

MEMBERSHIP

Individuals of Indian ancestry or any tribe, band, or group of Indians, Eskimos, and Aleuts are eligible for membership in NCAI.

REGIONAL OFFICES

The 11 regional offices of the NCAI are located in:

Aberdeen, South Dakota
Anchorage, Alaska
Anadarko, Oklahoma
Billings, Montana
Gallup, New Mexico
Minneapolis, Minnesota
Muskogee, Oklahoma
Phoenix, Arizona
Portland, Oregon
Sacramento, California
Cherokee, North Carolina

NATIONAL INDIAN EDUCATION ASSOCIATION (NIEA)
Suite 3
3036 University Avenue, S. E.
Minneapolis, Minnesota 55414

Acting Executive Director: John Tiger
Telephone: (612) 378-0482

Scope: National

OBJECTIVES

The National Indian Education Association seeks to improve the quality of education provided by and for American Indians throughout the United States.

ACTIVITIES

NIEA retains consultants and conducts workshops to evaluate the delivery of educational services and monitors the legal, social, and economic efforts of such educational systems as the Bureau of Indian Affairs schools and programs and public schools enrolling American Indians. NIEA also serves as a clearinghouse for information on educational materials and teacher and administrator positions as they become available.

Major activities and services to the American Indian community are generated through the following NIEA projects:

- Project ILSTAC. A project which provides a continuing, centralized resource for technical assistance to the American Indian libraries and library service programs serving American Indians in the United States.
- Project Media. A computerized, long-range program designed to provide a catalog of all American Indian materials used in the elementary, secondary, and post-secondary schools throughout the U.S.
- Other Activities. NIEA conducted a series of workshops to provide advice in the preparation of applications under the recently enacted "Indian Education Act." Another workshop was held to structure a course in contemporary American Indian issues appropriate for use in high school or college American studies programs.

Two publications available from NIEA are Indian Education, NIEA's newsletter, and the 1973 Conference Report (with accompanying film, upon request).

MINORITY ORGANIZATIONS: PUERTO RICAN

ASPIRA OF AMERICA, INC.
22 East 54th Street
New York, New York 10022

National Executive Director: Mario A. Anglada
Telephone: (212) 688-7414

Scope: National, regional

OBJECTIVES

Aspira of America, Inc. was organized to increase educational opportunities for Puerto Ricans.

ACTIVITIES

Aspira's national office provides training and technical assistance to its affiliates located in five cities. Aspira has initiated various activities to improve the educational opportunities available to Puerto Rican elementary and secondary high school students. These activities include recruitment of bilingual teachers, development of bilingual curricula, and a program to assist dropouts to obtain the equivalent of a high school diploma.

Aspira clubs, a group of Puerto Rican and other Hispanic high school students guided by educational counselors, work to motivate students to remain in school, to help students with individual problems, and to motivate students to consider pursuing a post-secondary education.

REGIONAL OFFICES

Aspira has affiliate chapters in New York, New Jersey, Pennsylvania, Illinois, and Puerto Rico and is working to form organizations in Connecticut and Ohio.

NATIONAL PUERTO RICAN FORUM, INC.
666 Fifth Avenue
New York, New York 10009

National Executive Director: Hiram C. Cintron
Telephone: (212) 265-0505

Scope: National

OBJECTIVES

The National Puerto Rican Forum was established to develop effective leadership in Puerto Rican communities in the United States. The Forum identifies social and economic needs of Puerto Ricans and establishes programs designed to meet those needs.

ACTIVITIES

The Forum works with universities, city, state, and federal agencies, and other institutions concerned with finding practical solutions to the problems of America's minority groups. The Forum's principal areas of program involvement are manpower training, business development and management assistance, and adult education. It also maintains and updates annually a Talent Registry Program that serves as a job clearinghouse for Hispanic professionals and prospective employers in business, education and government. Counseling and job placement assistance is available to minority engineering students and professionals through the Talent Registry Program.

PUERTO RICAN ASSOCIATION FOR COMMUNITY AFFAIRS, INC. (PRACA)
835 Broadway, Suite 1011
New York, New York 10003

Executive Director: Andres V. Cubero
Telephone: (212) 677-2220

Scope: National

OBJECTIVES

The Puerto Rican Association for Community Affairs, Inc., formerly called the Hispanic Young Adult Association (HYAA), was founded to:

- develop leadership qualities among young Puerto Ricans within Puerto Rican communities;
- foster a greater awareness of Puerto Rico, its people, its culture and its history among Puerto Rican Communities;
- identify, develop, and implement programs that address the need for changes in the delivery of social services within the Puerto Rican community; and
- develop institutions and agencies to serve the needs of the Puerto Rican and Spanish speaking community.

ACTIVITIES

PRACA's activities include efforts in the area of child care and development, the PRACA Child Welfare Project, the Juventud Y Justicia Project (Juveniles and Justice), The Criemos Los Nuestros (Raising Our Own), the PRACA Bilingual, Bi-cultural Early Childhood Curriculum Center, and the PRACA Day Care Center. PRACA also has a project to provide training and development services to organizations, the Puerto Rican National Training Institute (PRNTI).

EDUCATIONAL SOCIETIES/ORGANIZATIONS: TEACHER/COUNSELOR

AMERICAN PERSONNEL AND GUIDANCE ASSOCIATION (APGA)
1607 New Hampshire Avenue, N. W.
Washington, D. C. 20009

Executive Director: Charles L. Lewis
Telephone: (202) 483-4633

Scope: National, regional, local

OBJECTIVES

The American Personnel and Guidance Association is a scientific and educational organization serving its members and the public through programs to advance the educational aspects of guidance and counseling at all educational levels from kindergarten through higher education, and in community agencies, government, business, and industry.

ACTIVITIES

Through the APGA, members:

- maintain contact with guidance counselors and personnel workers through national, regional, and local meetings;
- follow developments in the guidance field through the organization's Personnel and Guidance Journal and its newspaper, Guidepost; and
- keep up with their specialty through membership in the various divisions of the APGA.

MEMBERSHIP

Established in 1952, APGA has more than 40,000 members in local chapters, state divisions, and national divisions.

APGA's divisions include:

American College Personnel Association (ACPA)
Association for Counselor Education and Supervision (ACES)
National Vocational Guidance Association (NVGA)
Student Personnel Association for Teacher Education (SPATE)
American School Counselor Association (ASCA)
American Rehabilitation Counseling Association (ARCA)
Association for Measurement and Evaluation in Guidance (AMEG)
National Employment Counselors Association (NECA)
Association for Specialists in Group Work (ASGW)
Public Offender Counselor Association (POCA)

ASSOCIATION OF MEXICAN AMERICAN EDUCATORS, INC. (AMAE)
P. O. Box 4203
San Diego, California 92104

President: Helen E. Diaz
Telephone: (714) 281-3413

Scope: Regional

OBJECTIVES

The major objective of the Association of Mexican American Educators is to obtain quality education for all students in California, with special concern for Mexican American (Chicano) and Hispanic students.

ACTIVITIES

AMAE's interests include early childhood education, teacher training programs, school finance, and migrant and career education. AMAE publishes a newsletter that is distributed quarterly.

MEMBERSHIP

AMAE's membership includes educators, students, associate and institutional members. The organization has approximately 40 chapters in California.

NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS (NCTM)
1906 Association Drive
Reston, Virginia 22091

Executive Secretary:	James D. Gates
Telephone:	(703) 620-9840
Scope:	National, local

OBJECTIVES

The purpose of the National Council of Teachers of Mathematics is the advancement of mathematics teaching in elementary schools, junior and senior high schools, two-year colleges, and teacher-education colleges.

ACTIVITIES

Educational activities include publications (journals, yearbooks, supplementary publications), conferences, and a wide range of committee activities which focus on various aspects of mathematics and mathematics instruction.

MEMBERSHIP

The Council has 178 affiliated groups throughout the United States and Canada.

NATIONAL EDUCATION ASSOCIATION (NEA)
1201 16th Street, N.W.
Washington, D. C. 20036

Executive Secretary: Terry E. Herndon
Telephone: (212) 833-4000

Scope: National, state, local

OBJECTIVES

The purpose of the National Education Association is to advance the interests of the profession of teaching and promote the cause of education in the United States.

ACTIVITIES

The NEA is engaged in a wide range of activities including improving educational programs, securing adequate financing for public education, and providing leadership in solving social problems.

MEMBERSHIP

Approximately 1.5 million elementary, secondary, and higher education teachers are members of the NEA. In addition, national and state professional associations and other organizations interested in education are affiliated with NEA. State education associations, for example, maintain their own state offices, publish an official magazine and hold annual meetings.

NATIONAL EDUCATION TASK FORCE DE LA RAZA
College of Education
Oñate Hall-Room 203
The University of New Mexico
Albuquerque, New Mexico 87131

National Chairman:	Robert Segura
Executive Director:	Tomas Villarreal, Jr.
Telephone:	(505) 277-5649
Scope:	National, regional

OBJECTIVES

The National Education Task Force de la Raza was organized to conduct training institutes for teachers, counselors, administrators, parents, and students. These institutes focus on educational subjects of interest to Hispanic citizens, particularly the Mexican American (Chicano).

ACTIVITIES

The National Education Task Force de la Raza has focused on educational activities by:

- conducting training institutes on access to higher education for the Mexican American, bilingual education, school finance, and social studies;
- providing research and consultation services to school districts on issues related to Hispanic students, particularly the Mexican American students; and
- informing federal and state agencies on the educational concerns of Mexican Americans.

NATIONAL SCIENCE TEACHERS ASSOCIATION (NSTA)
1742 Connecticut Avenue, N. W.
Washington, D. C. 20009

Executive Director:	Robert L. Silber
Contact Person:	Dorothy K. Culbert, Director Division of Field Services and Secondary Education
Telephone:	(202) 265-4150
Scope:	National, state, local

OBJECTIVES

The objective of the National Science Teachers Association is to advance and improve science education at all levels through the interaction of students, teachers, curricula, procedures, facilities, and evaluation procedures.

ACTIVITIES

NSTA has several educational activities which involve minority pre-engineering efforts. These include NSTA's participation as a member of the Minority Engineering Education Effort (ME^3), and programs such as the Committee on Science in the Education of Urban Youth, Student Activities Committee (co-sponsored by the National Science Supervisors Association), Future Scientists of America Program, and NASA Viking Student Project.

NSTA has three publications: Science and Children for elementary school teachers, Journal of College Science Teaching for college teachers, and The Science Teacher for its general membership and the secondary school teacher.

MEMBERSHIP

NSTA members include elementary, secondary, and college level teachers, who are affiliated with NSTA through their state associations.

EDUCATIONAL SOCIETIES/ORGANIZATIONS: SECONDARY

AMERICAN ASSOCIATION OF SCHOOL ADMINISTRATORS (AASA)
1801 N. Moore Street
Arlington, Virginia 22209

Executive Director: Paul B. Salmon
Telephone: (703) 528-0700

Scope: National, local

OBJECTIVES

The American Association of School Administrators is a nationwide organization of administrative officers of boards of education, school district superintendents, presidents of colleges, deans, professors of educational administration, placement officers, and administrators of educational associations.

ACTIVITIES

AASA maintains a publications program which includes a monthly newsletter, The School Administrator, executive handbooks dealing with major problems that administrators face; special periodicals; pamphlets; and audiovisual materials.

AASA annually holds a national convention and several regional conferences.

MEMBERSHIP

AASA has 18,000 members in 54 local chapters across the country; school administrators and students are eligible for membership.

NATIONAL ASSOCIATION OF ELEMENTARY SCHOOL PRINCIPALS (NAESP)
1801 North Moore Street
Arlington, Virginia 22209

Executive Director: William L. Pharis
Telephone: (703) 528-5627

Scope: National

OBJECTIVES

The National Association of Elementary School Principals was formed to increase the effectiveness of elementary education.

ACTIVITIES

NAESP publishes a magazine, The National Elementary School Principal and a newsletter, Spectator. NAESP also holds a yearly national convention where workshops are held on educational problems related to elementary schools.

MEMBERSHIP

NAESP has 28,000 members.

NATIONAL ASSOCIATION OF SECONDARY SCHOOL PRINCIPALS (NASSP)
1904 Association Drive
Reston, Virginia 22091

Executive Director: Owen B. Kiernan
Telephone: (703) 860-0200

Scope: National

OBJECTIVES

The National Association of Secondary School Principals addresses issues and problems related to secondary schools.

ACTIVITIES

The NASSP sponsors the National Honor Society and the National Association of Student Councils.

NASSP's publications include the Bulletin, Legal Memorandum, City Currents, and the NASSP Newsletter.

MEMBERSHIP

The National Association of Secondary School Principals (NASSP), composed of secondary-school principals, assistant principals, and other persons engaged in secondary-school administration and/or supervision, has a membership of 35,000.

EDUCATIONAL SOCIETIES/ORGANIZATIONS: POST-SECONDARY

AMERICAN ASSOCIATION OF COMMUNITY AND JUNIOR COLLEGES (AACJC)
One DuPont Circle, N. W.
Washington, D. C. 20036

President:	Edmund J. Gleazer, Jr.
Telephone:	(202) 293-7050
Scope:	National

OBJECTIVES

The mission of the American Association of Community and Junior Colleges (AACJC) is to provide an organization for national leadership of community-based post-secondary education. The three specific objectives are to:

- represent the interests of member institutions in Washington, D.C., at foundations, and before other decision-making centers of national significance;
- encompass in membership, as fully as possible, all community-based post-secondary institutions; and
- alert member institutions to trends and issues in society which present significant opportunities or constraints.

ACTIVITIES

The AACJC has a Commission on Governmental Affairs which assists in formulating positions with regard to federal programs and supports efforts of the staff in providing testimony and information to Congress and governmental agencies.

AMERICAN INDIAN HIGHER EDUCATION CONSORTIUM (AIHEC)
1626 High Street
Denver, Colorado 80218

Executive Director: David M. Gipp
Telephone: (313) 321-5909

Scope: National

OBJECTIVES

The American Indian Higher Education Consortium, a consortium of six American Indian-controlled junior colleges, offers post-secondary educational opportunities to local students as an alternative to off-reservation educational institutions in order to further the concept of American Indian self-determination and control of educational programs.

ACTIVITIES

The AIHEC has a service staff with specialties in accreditation, financial and institutional resources, human resources, management and faculty development exchange programs, curricular development, and research and data collection.

AIHEC was involved in a pre-engineering summer institute program at the University of North Dakota during the 1974 summer session.

MEMBERSHIP

Participating institutions are:

Navajo Community College
Tsaile Lake
Chinle, Navajo Nation
Arizona 86503
President: Tom Atcitty
(602) 724-3311

Sinte Gleska Community College
Rosebud, South Dakota 57570
President: Lionel Bordeaux

Turtle Mountain Community College
Belcourt, North Dakota 58316
Co-Directors: Twila Martin and
Larry Belgrade
(701) 477-5691

Hehakasapa College
Deganawidah Quetzalcoatl University
Davis, California 95616
Academic Dean: Wilfred Wasson
(916) 752-2105

Standing Rock Community College
Fort Yates, North Dakota 58538
President: Minard White
(701) 854-6596

Lakota Higher Education Center
Pine Ridge, South Dakota
Chairman of the Board of Regents:
Gerald One Feather
(605) 867-5821

EL CONGRESO NACIONAL DE ASUNTOS COLEGIALES
One DuPont Circle, N. W., Suite 400
Washington, D. C. 20036

Executive Director: Pepe Barron
Telephone: (202) 223-1174

Scope: National

OBJECTIVES

The objectives of El Congreso Nacional De Asuntos Colegiales, a Spanish speaking organization, are to promote the educational, social, and economic well-being of the Spanish speaking community and junior colleges and to deliver adequate and effective education to the Spanish speaking in this country.

ACTIVITIES

El Congreso activities include:

- preparation of Spanish speaking administrators;
- collection and dissemination of data;
- recommendation of task forces;
- communication among its members and the American Association of Community and Junior Colleges (AACJC); and
- solution and development of new approaches to problems of education encountered by the Spanish speaking population.

In addition, El Congreso serves as a resource to AACJC and cooperates with other Spanish speaking organizations sharing related concerns.

MEMBERSHIP

El Congreso's membership includes community and junior college teachers, students, community individuals, and elementary, secondary, and university personnel. El Congreso is affiliated with the American Association of Community and Junior Colleges.*

*See separate entry.

NATIONAL ASSOCIATION OF COLLEGE ADMISSIONS COUNSELORS (NACAC)
9933 Lawler Avenue, Suite 500
Skokie, Illinois 60076

Executive Director:	Ted S. Cooper
Telephone:	(312) 676-0500
Scope:	National

OBJECTIVES

The National Association of College Admissions Counselors provides a means for admissions officers and secondary school counselors to share information, discuss common problems, and maintain high professional standards. NACAC is also concerned with the transition of students from high school to post-secondary institutions.

ACTIVITIES

NACAC sponsors National College Fairs in 15 or more major U.S. cities each year and maintains a library of publications pertinent to guidance, admissions, and financial aid. The individual counseling section of each National College Fair usually includes professionals qualified to offer information to minorities.

NACAC has a Human Pelations Committee which handles the association's minority efforts. The committee is currently concerned with the admission and retention of minority students in the nation's institutions of higher learning.

MEMBERSHIP

NACAC comprises 1,900 secondary schools and school districts, colleges, universities, and educational associations.

OFFICE FOR ADVANCEMENT OF PUBLIC NEGRO COLLEGES (OAPNC)
805 Peachtree Street, N.E.
Suite 577
Atlanta, Georgia 30308

Executive Director:	Johnny R. Hill
Telephone:	(404) 874-8073
Scope:	National

OBJECTIVES

The Office for Advancement of Public Negro Colleges, a division of the National Association of State University and Land Grant Colleges, serves as a catalytic agent for the 34 historically Black public colleges in the United States.

ACTIVITIES

OAPNC promotes the visibility of the 34 historically Black public colleges, provides external support to these institutions, and interacts with corporate and foundation offices interested in higher education.

MEMBERSHIP

Included among the institutions affiliated with OAPNC are four with undergraduate programs in engineering: Prairie View A&M, North Carolina A&T, Tennessee State, and Southern University.

UNITED NEGRO COLLEGE FUND (UNCF)
500 East 62nd Street
New York, New York 10021

Executive Director: Christopher F. Edley
Contact Person: James Smothers
Telephone: (212) 644-9600

Scope: National

OBJECTIVES

The United Negro College Fund was founded for the purpose of conducting annual campaigns for funds needed to help meet the operating expenses of 27 historically Black colleges and universities. The long term goal of the fund is to raise 10 percent of the operating budget of each member institution.

ACTIVITIES

Activities and services of the fund include campaigns for securing contributions and bequests. In pursuit of this goal, the fund also organizes and administers educational programs and services of mutual benefit to the member institutions and serves as a center of information concerning the higher education of Blacks in the United States.

Funds raised by UNCF are used for scholarships and other student aid programs, faculty salaries, continued development of remedial programs, teaching equipment and library acquisitions, and for any other operating cost at the discretion of each college's board of trustees.

MEMBERSHIP

Currently, forty-one colleges and universities are members of the fund. Seven of these schools have pre-engineering or engineering related programs. They are Clark College, Morehouse, Morris Brown College, Spelman College, Tuskegee Institute, Virginia Union University, and Wilberforce University.

WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION (WICHE)
P. O. Drawer P
Boulder, Colorado 80302

Contact Person:	Patricia Locke, Program Director Planning Resources in Minority Education
Telephone:	(303) 492-8223
Scope:	National

OBJECTIVES

The objectives of the Western Interstate Commission for Higher Education are to:

- improve the quality of education beyond the high school level;
- expand educational opportunities, including those in continuing education;
- coordinate and expand interstate and inter-institutional cooperative programs;
- help institutions of higher education improve both academic administration and institutional management;
- assist the educational community in assessing and responding to the changing needs of the West; and
- raise the public's level of understanding of the role of higher education.

ACTIVITIES

Through WICHE's special higher education programs, a Graduate Ethnic Opportunity Network helps American Indians to obtain entrance and financial assistance to study for advanced degrees.

Another program is the American Indian Internship Program which places American Indian college students in jobs on reservations on such assignments as evaluating timber resources, youth alcoholism and drug abuse counseling, economic development, legal services, and reservation and tribal resource development.

PRIME (Planning Resources in Minority Education) has recently published A Survey of College and University Programs for American Indians, a list of American Indian programs in the United States.

APPENDIX: BIBLIOGRAPHY ON ENGINEERING EDUCATION FOR MINORITIES

Guidance Booklets for Students

Recent Books, Reports, and Directories

Recent Articles

GUIDANCE BOOKLETS FOR STUDENTS

American Black Scientists and Inventors. Jenkins, Edward S., et. al., eds. Washington, D.C.: National Science Teachers Association, 1975.

Discusses the lives of twelve Black Americans of the past and their contributions as scientists and inventors.

Black Americans in Science and Engineering, Contributors of Past and Present. Winslow, Eugene, ed. Afro-Am Publishing Company, Inc., 1974.

Contains brief biographical sketches of 27 Black inventors and scientists whose discoveries helped to advance the scientific know-how of this nation.

Black Men and Women on the Move. Washington, D.C.: Black Engineering Colleges Development Committee, American Society for Engineering Education, 1974.

Discusses programs and activities at six Black engineering schools.

Legacy for All, A Record of Achievements by Black American Scientists. Western Electric, 1975.

Discusses the accomplishments of nine Black scientists.

Lewis Howard Latimer, A Black Inventor. Thomas Alva Edison Foundation. General Electric Company, 1973.

Discusses the life of Lewis H. Latimer, who made significant contributions in the field of electricity.

Quincy Looks into his Future. New York: General Electric Company, 1973.

Describes careers in engineering in comic book form.

You Can Get a Piece of the Action. New York: Minority Engineering Education Effort, 1974.

Based on the film, "A Piece of the Action," this pamphlet presents discussions with several minority youth on the opportunities an engineering career may offer.

RECENT BOOKS, REPORTS, AND DIRECTORIES

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Building Effective Minority Programs in Engineering Education. Washington, D.C.: Committee on Minorities in Engineering, Assembly of Engineering, National Research Council, 1975.

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"Engineering Guidance Materials - A Directory." Engineering Education, 64:7 (April 1974) 513-514.

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